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(54) **METHOD AND SYSTEM FOR CLUSTERING IDENTIFIED FORMS**

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G06F 17/30 (2006.01)

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(58) **Field of Classification Search** 707/705, 707/720–735, 999.1, 999.3, 999.6, 999.7, 707/736, 737, 758
See application file for complete search history.

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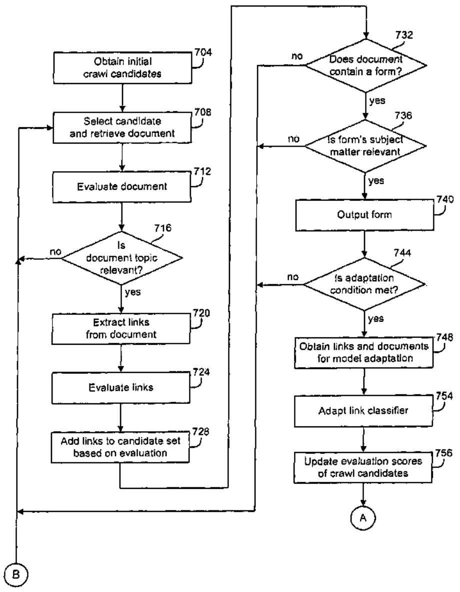
(57) **ABSTRACT**

A method is provided for organizing a plurality of documents that include forms. An initial set of clusters is defined for the plurality of documents. The initial set of clusters is reclustered based on similarity values calculated in multiple feature spaces. For example, a first feature space may be associated with a content of a document while a second feature space may be associated with a content of a form associated with the document. Each cluster has an associated centroid vector in each feature space that is used to represent the cluster. The similarity between the document and each cluster is calculated in both feature spaces. Each document is assigned to the cluster whose centroid is most similar. The cluster centroids may be recalculated and the process repeated until the cluster assignments become stable.

32 Claims, 10 Drawing Sheets


Obtain initial crawl candidates
704
Select candidate and retrieve document
708
Evaluate document
712
Is document topic relevant?
716
no
yes
Extract links from document
720
Evaluate links
724
Add links to candidate set based on evaluation
728
732
Does document contain a form?
no
yes
736
Is form's subject matter relevant
no
yes
Output form
740
744
Is adaptation condition met?
no
yes
Obtain links and documents for model adaptation
748
Adapt link classifier
754
Update evaluation scores of crawl candidates
756
A
B